

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1746	429//163	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/17 10:41
L2	2	1 and (laminate near battery) and packag\$4 and (series or parrallel)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/17 10:42
L3	1107	429//162	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/17 10:43
L4	52	3 and (laminate near battery)	US-PGPUB; USPAT	OR	OFF	2008/03/17 10:43
L5	1206	429//185	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/17 10:45
L6	21	5 and (laminate near battery)	US-PGPUB; USPAT	OR	OFF	2008/03/17 10:45
L7	3735	428//198	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/17 10:46
L8	19	7 and hole\$3 same strength and offset\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/17 10:47
L9	0	battery and ((collector \$2 near5 (hole\$2 aperture\$2 opening \$2)) same thick\$4) and (staggered (off near set \$3))	EPO; JPO; DERWENT	OR	OFF	2008/03/17 10:48
L10	3	battery and ((collector \$2 near5 (hole\$2 aperture\$2 opening \$2)) same thick\$4) and (staggered (off near set \$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/17 10:48
L11	49	battery and (((collector \$2 tab\$2 lead\$2) near5 (hole\$2 aperture\$2 opening\$2)) same thick \$4) and (staggered (off near set\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/17 10:49
L12	171	((shimamura same osamu) (abe same takaaki) (ito same takanori) (saito same takamitsu) (horie same hideaki) (Sugawara same hiroshi)).in.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/17 10:53

L13	46	12 and battery and laminat\$4 and electrode\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/17 10:53
L14	30	12 and battery and laminat\$4 and electrode\$2 and (hole\$2 perforat\$4 protrud\$4 aperture\$2 opening\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/17 10:55
L15	34	(battery and laminat\$4 and electrode\$2 and (hole\$2 perforat\$4 protrud\$4 aperture\$2 opening\$2) and terminal\$2 and (area thick\$4 (cross near section\$3)) and (film\$2 sheet\$2)).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/17 11:00
S1	0	(laminat same (thin near film) same battery) and (hermetic\$5 same seal\$3) and (batter near pack) and weld\$3 and separator\$3 and terminal\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/19 17:56
S2	0	(laminat same thin same film same battery) and (hermetic\$5 same seal\$3) and (batter near pack) and weld\$3 and separator\$3 and terminal\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/19 17:56
S3	0	(laminat same thin same film same battery) and hermetic\$5 and (batter near pack) and weld\$3 and separator\$3 and terminal\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/19 17:56
S4	0	(laminat same (thin near film) same battery) and (hermetic\$5 same seal\$3) and (battery near pack) and weld\$3 and separator\$3 and terminal\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/19 17:57
S5	0	(laminat same (thin near film) same battery) and hermetic\$5 and (battery near pack) and weld\$3 and separator\$3 and terminal\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/19 17:57

S6	7	(laminat\$ same battery) and hermetic \$5 and (battery near pack) and weld\$3 and separator\$3 and terminal\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/19 18:02
S7	76	(laminat\$3 same battery) and seal\$3 and (battery near pack) and weld\$3 and separator\$3 and terminal\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/19 18:02
S8	4	(laminat\$3 same battery) and seal\$3 and (battery near pack) and weld\$3 and separator\$3 and terminal\$2 and (thermal \$3 near weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/19 18:10
S9	0	(laminat\$3 same (flat near cell)) and seal\$3 and (battery near pack) and weld\$3 and separator\$3 and terminal\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/19 18:04
S10	1	(laminat\$3 same battery) and (flat near cell) and seal\$3 and (battery near pack) and weld\$3 and separator \$3 and terminal\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/19 18:09
S11	1	"6225778".pn.	USPAT	OR	OFF	2006/11/28 12:31
S12	0	S11 and vehicle	USPAT	OR	OFF	2006/05/19 18:07
S13	0	S11 and auto\$7	USPAT	OR	OFF	2006/05/19 18:08
S14	0	S11 and transp\$4	USPAT	OR	OFF	2006/05/19 18:08
S15	0	S11 and car	USPAT	OR	OFF	2006/05/19 18:08
S16	0	S11 and transport\$5	USPAT	OR	OFF	2006/05/19 18:08
S17	5505	(laminat\$3 same battery)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/19 18:09

S18	1	(laminat\$3 same battery) and seal\$3 and (battery near pack) and weld\$3 and separator\$3 and terminal\$2 and (thermal \$3 near weld\$3) and vehicle	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/19 18:10
S19	4	(laminat\$3 same battery) and seal\$3 and (battery near pack) and weld\$3 and separator\$3 and terminal\$2 and (thermal \$3 near weld\$3) and vehicle\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/19 18:10
S20	24	(laminat\$3 same battery) and seal\$3 and (battery near pack) and weld\$3 and separator\$3 and terminal\$2 and vehicle \$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/19 18:12
S21	28	(laminat\$3 same (battery or cell)) and seal\$3 and (battery near pack) and weld\$3 and separator\$3 and terminal\$2 and vehicle \$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/19 18:12
S22	1	"6225778".pn.	USPAT	OR	OFF	2006/06/03 13:30
S23	1	S22 and flat and laminat\$3 and film	USPAT	OR	OFF	2006/06/03 13:32
S24	0	S22 and flat and laminat\$3 and film and seal\$3 and hermetic\$5	USPAT	OR	OFF	2006/06/03 13:32
S25	1	S22 and flat and laminat\$3 and film and seal\$3	USPAT	OR	OFF	2006/06/03 13:32
S26	1	S22 and flat and laminat\$3 and film and seal\$3 and weld\$3	USPAT	OR	OFF	2006/06/03 13:32
S27	1	S22 and flat and laminat\$3 and film and seal\$3 and weld\$3 and thermal\$5	USPAT	OR	OFF	2006/06/03 13:34
S28	1	S22 and flat and laminat\$3 and film and seal\$3 and weld\$3 and thermal\$5 and hole\$2	USPAT	OR	OFF	2006/06/05 09:46

S29	0	S22 and flat and laminat\$3 and film and seal\$3 and weld\$3 and thermal\$5 and hole\$2 and (vehicle or transport\$4)	USPAT	OR	OFF	2006/06/03 13:38
S30	0	S22 and flat and laminat\$3 and film and seal\$3 and weld\$3 and thermal\$5 and hole\$2 and (vehicle\$2 or transport\$4 or car\$2 or mobile or automobil\$3)	USPAT	OR	OFF	2006/06/03 13:39
S31	1	"6296967".pn.	USPAT	OR	OFF	2006/06/03 13:39
S32	0	S31 and flat and laminat\$3 and film and seal\$3 and weld\$3 and thermal\$5 and hole\$2	USPAT	OR	OFF	2006/06/03 13:40
S33	0	S31 and flat and laminat\$3 and film and seal\$3 and weld\$3 and thermal\$5 and hole\$2	USPAT	OR	OFF	2006/06/03 13:40
S34	1	"6225778".pn.	USPAT	OR	OFF	2006/06/06 10:19
S35	1	S34 and flat and laminat\$3 and film and seal\$3 and weld\$3 and thermal\$5 and hole\$2	USPAT	OR	OFF	2006/06/05 10:02
S36	1	S34 and plate\$2 and separator\$2	USPAT	OR	OFF	2006/06/05 10:02
S37	0	S34 and (electrode near plate\$2) and separator\$2	USPAT	OR	OFF	2006/06/05 10:03
S38	1	S34 and (electrode same plate\$2) and separator\$2	USPAT	OR	OFF	2006/06/05 10:04
S39	1	S34 and electrode\$2 and separator\$2	USPAT	OR	OFF	2006/06/05 10:09
S40	1	10/645617	US-PGPUB	OR	OFF	2007/04/23 18:26
S41	1	S40 and polymer and metal	US-PGPUB	OR	OFF	2006/06/05 10:06
S42	1	S40 and polymer and metal and laminat\$4	US-PGPUB	OR	OFF	2006/06/05 10:06
S43	1	S34 and (polymer or plastic)	USPAT	OR	OFF	2006/06/05 10:21
S44	1	S34 and separator\$2 and electrode\$2	USPAT	OR	OFF	2006/06/05 10:27

S45	0	S34 and (terminal near lead)	USPAT	OR	OFF	2006/06/05 10:27
S46	1	S34 and (terminal same lead)	USPAT	OR	OFF	2006/06/05 10:28
S47	1	S34 and (terminal same lead\$2) and electrode\$2	USPAT	OR	OFF	2006/06/05 10:37
S48	0	S34 and thermal\$4 same weld\$4	USPAT	OR	OFF	2006/06/05 10:38
S49	1	S34 and thermal\$4 and weld\$4	USPAT	OR	OFF	2006/06/05 10:39
S50	1	S34 and thermal\$4 and weld\$4 and laminat\$5	USPAT	OR	OFF	2006/06/05 10:47
S51	0	S34 and (through near hole)	USPAT	OR	OFF	2006/06/05 10:47
S52	1	S34 and hole\$2	USPAT	OR	OFF	2006/06/05 10:48
S53	1	S34 and (through near hole\$2)	USPAT	OR	OFF	2006/06/05 10:49
S54	1	S34 and (through near hole\$2) and hole\$2	USPAT	OR	OFF	2006/06/05 10:49
S55	1	S34 and (through near hole\$2) and hole\$2 and terminal\$2 and lead\$2	USPAT	OR	OFF	2006/06/05 10:49
S56	1	"6225778".pn.	USPAT	OR	OFF	2006/06/06 10:24
S57	0	S56 and ahesive	USPAT	OR	OFF	2006/06/06 10:24
S58	1	S56 and adhesive	USPAT	OR	OFF	2006/06/06 14:24
S59	1	S56 and fold\$4	USPAT	OR	OFF	2006/06/06 10:39
S60	1	S56 and (series or parallel)	USPAT	OR	OFF	2006/06/06 10:47
S61	18	(laminat near battery) and packag\$4 and (series or parrallel)	US-PGPUB; USPAT	OR	OFF	2006/06/06 11:45
S62	23	(laminat near battery) and packag\$4 and (series or parallel)	US-PGPUB; USPAT	OR	OFF	2006/06/06 11:18
S63	8	(laminat near battery) and (battery near module\$2) and (series or parallel)	US-PGPUB; USPAT	OR	OFF	2006/06/06 11:20
S64	7	(laminat near battery) and (battery near pack \$2) and (series or parallel)	US-PGPUB; USPAT	OR	OFF	2006/06/06 11:21

S65	69	(battery near pack\$2) and ((series or parallel) same module\$2) and EV	US-PGPUB; USPAT	OR	OFF	2006/06/06 11:24
S66	6	((battery near pack\$2) same lithium) and ((series or parallel) same module\$2) and EV	US-PGPUB; USPAT	OR	OFF	2006/06/06 11:45
S67	302	429//171	US-PGPUB; USPAT	OR	OFF	2006/06/06 11:46
S68	0	S67 and (laminare near battery) and packag\$4 and (series or parrallel)	US-PGPUB; USPAT	OR	OFF	2006/06/06 11:46
S69	1542	429//163	US-PGPUB; USPAT	OR	OFF	2006/06/06 11:51
S70	1	S69 and (laminare near battery) and packag\$4 and (series or parrallel)	US-PGPUB; USPAT	OR	OFF	2006/06/06 11:47
S71	991	429//162	US-PGPUB; USPAT	OR	OFF	2006/06/06 11:47
S72	43	S71 and (laminare near battery)	US-PGPUB; USPAT	OR	OFF	2006/06/06 11:51
S73	1046	429//185	US-PGPUB; USPAT	OR	OFF	2006/06/06 11:51
S74	17	S73 and (laminare near battery)	US-PGPUB; USPAT	OR	OFF	2006/06/06 11:51
S75	1	10/645617	US-PGPUB	OR	OFF	2006/06/06 11:54
S76	1	S75 and hole\$2	US-PGPUB	OR	OFF	2006/06/06 11:54
S77	1	S56 and thick\$4	USPAT	OR	OFF	2006/06/06 14:46
S78	1	S56 and thick\$4 and "1a"	USPAT	OR	OFF	2006/06/06 14:46
S79	1	10/645617	US-PGPUB	OR	OFF	2006/11/28 12:23
S80	1	S79 and holes	US-PGPUB	OR	OFF	2006/11/28 16:23
S81	0	((suzuki same takeru) (maruyama same satoru)).in. and battery	US-PGPUB	OR	OFF	2006/11/28 12:24
S82	1	((suzuki same takeru) (maruyama same satoru)).in. and battery	US-PGPUB; USPAT	OR	OFF	2006/11/28 12:25

S83	4	((suzuki same takeru) (maruyama same satoru) (iijima same takeshi) (naoi same katsuo)).in. and battery	US-PGPUB; USPAT	OR	OFF	2006/11/28 12:26
S84	84	((suzuki same takeru) (maruyama same satoru) (iijima same takeshi) (naoi same katsuo)).in. and battery	EPO; JPO; DERWENT	OR	OFF	2006/11/28 12:26
S85	5	((suzuki same takeru) (maruyama same satoru) (iijima same takeshi) (naoi same katsuo)).in. and battery and electro\$2 and laminat\$3	EPO; JPO; DERWENT	OR	OFF	2006/11/28 12:27
S86	37500	tdk.as.	EPO; JPO; DERWENT	OR	OFF	2006/11/28 12:27
S87	4697	tdk.as.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/28 12:27
S88	17	tdk.as. and (electrochemical same element)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/28 12:28
S89	72	tdk.as. and battery and laminat\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/28 12:29
S90	1	"6225778".pn.	USPAT	OR	OFF	2006/11/28 12:31
S91	1	S90 and (hole\$3 opening\$3)	USPAT	OR	OFF	2006/11/28 15:06
S92	203	laminat\$3 same battery and ((tab\$2 or lead) same hole\$2)	USPAT	OR	OFF	2006/11/28 12:42
S93	395	laminat\$3 same battery and ((tab\$2 or lead) same hole\$2)	US-PGPUB; USPAT	OR	OFF	2006/11/28 12:43
S94	1	S90 and upward	USPAT	OR	OFF	2006/11/28 15:09
S95	1	S90 and fold\$3	USPAT	OR	OFF	2006/11/28 15:14
S96	1	S90 and "6f"	USPAT	OR	OFF	2006/11/28 15:14
S97	0	S79 and offset	US-PGPUB	OR	OFF	2006/11/28 15:36
S98	0	S79 and offset\$3	US-PGPUB	OR	OFF	2006/11/28 15:36
S99	0	S79 and offset\$5	US-PGPUB	OR	OFF	2006/11/28 15:36



S100	358	429//198	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/28 16:25
S101	3520	428//198	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/28 16:25
S102	18	S101 and hole\$3 same strength and offset\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/28 16:26
S103	1760	((tab\$2 lead foil sheet) same hole\$2 same offset\$4 same (strong \$3 strength\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/28 16:28
S104	51	((tab\$2 lead foil sheet) same hole\$2 same offset\$4 same (strong \$3 strength\$3)) and battery	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/28 16:29
S105	1980	((tab\$2 lead foil sheet) same (hole\$2 perforations) same offset\$4 same (strong \$3 strength\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/28 16:30
S106	94	((tab\$2 lead foil sheet) same ((hole\$2 perforations) near3 offset\$4) same (strong \$3 strength\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/28 16:37
S107	58	(sheet same ((hole\$2 perforations) near3 offset\$4) same (strong \$3 strength\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/28 16:38
S108	626	(sheet same ((hole\$2 perforations) near3 offset\$4) )	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/28 16:38
S109	56	(sheet near3 ((hole\$2 perforations) near3 offset\$4) )	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/28 16:41
S110	55	(sheet near3 ((hole\$2 perforations) near3 offset\$4) ) and offset\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/28 16:48
S111	113	(sheet near3 ((hole\$2 perforations aperture \$3) near3 offset\$4) ) and offset\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/28 17:17
S112	7	(foil near3 ((hole\$2 perforations aperture \$3) near3 offset\$4)) and offset\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/28 17:18
S113	107	(tab near3 ((hole\$2 perforations aperture \$3) near3 offset\$4)) and offset\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/28 17:21

S114	47	(lead near3 ((hole\$2 perforations aperture \$3) near3 offset\$4)) and offset\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/28 17:21
S115	3520	428//198	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/30 14:15
S116	28	S115 and ((perforat\$5 holes) same offset\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/30 14:13
S117	28	S115 and ((perforat\$5 holes) same offset\$3) and offset\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/30 14:15
S118	3833	428//192	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/30 14:15
S119	34	S118 and ((perforat\$5 holes) same offset\$3) and offset\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/30 14:17
S120	52652	((perforat\$5 holes) same offset\$3) and offset\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/30 14:17
S121	13429	((perforat\$5 holes) same offset\$3) and (offset\$4 same (strength\$4 advantag \$5)) and offset\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/30 14:18
S122	765	((perforat\$5 holes) same offset\$3) and (offset\$4 same (strength\$4 advantag \$5)) and offset\$4 and substrate\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/30 14:18
S123	133	((perforat\$5 holes) same offset\$3) and (offset\$4 same (strength\$4 advantag \$5)) and offset\$4 and substrate\$2 and battery	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/30 14:20
S124	765	((perforat\$5 holes) same offset\$3) and (offset\$4 same (strength\$4 advantag \$5)) and offset\$4 and substrate\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/30 14:21
S125	32	((perforat\$5 holes) near5 offset\$3) and (offset\$4 near5 (strength\$4 advantag \$5)) and offset\$4 and substrate\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/30 14:21

S126	140	((perforat\$5 holes) near5 offset\$3) and (offset\$4 near5 (strength\$4 advantag \$5)) and offset\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/30 14:21
S127	1	10/645617	US-PGPUB	OR	OFF	2007/04/17 14:08
S128	0	S127 and hole\$2 same off\$5	US-PGPUB	OR	OFF	2007/04/17 14:09
S129	0	S127 and hole\$2 same offset\$3	US-PGPUB	OR	OFF	2007/04/17 14:09
S130	0	S127 and hole\$2 and offset\$3	US-PGPUB	OR	OFF	2007/04/17 14:10
S131	0	S127 and offset	US-PGPUB	OR	OFF	2007/04/17 14:09
S132	1	S127 and arranged	US-PGPUB	OR	OFF	2007/04/17 14:10
S133	1	"5542958".pn.	USPAT	OR	OFF	2007/11/19 16:43
S134	0	S133 and hole\$1 and collector\$2 and tab\$2	USPAT	OR	OFF	2007/04/20 14:18
S135	0	S133 and hole\$1 and collector\$2	USPAT	OR	OFF	2007/04/20 14:18
S136	0	S133 and opening\$2 and collector\$2	USPAT	OR	OFF	2007/04/20 14:18
S137	0	S133 and collector\$2 and "3"	USPAT	OR	OFF	2007/04/20 14:19
S138	1	S133 and "3"	USPAT	OR	OFF	2007/04/20 15:10
S139	1	S133 and "3" and app \$6 and stagg\$4	USPAT	OR	OFF	2007/04/20 14:20
S140	1	S133 and "3" and app \$7 and stagg\$4	USPAT	OR	OFF	2007/04/20 14:22
S141	3	battery and ((collector \$2 near5 (hole\$2 aperture\$2 opening \$2)) same (staggered (off near set\$3)))	USPAT	OR	OFF	2007/04/20 14:24
S142	6	battery and ((collector \$2 near5 (hole\$2 aperture\$2 opening \$2)) same (staggered (off near set\$3)))	US-PGPUB; USPAT	OR	OFF	2007/04/20 14:25
S143	8	battery and ((collector \$2 near5 (hole\$2 aperture\$2 opening \$2)) same (staggered (off near set\$3)))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/20 14:26

S144	8	battery and (((collector \$2 near5 (hole\$2 aperture\$2 opening \$2)) same (staggered (off near set\$3))) and (staggered (off near set \$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/20 15:23
S145	65	battery and (((collector \$2 same (hole\$2 aperture\$2 opening \$2)) same (staggered (off near set\$3))) and (staggered (off near set \$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/20 14:28
S146	220	battery and (((collector \$2 tab\$2) same (hole \$2 aperture\$2 opening \$2)) same (staggered (off near set\$3))) and (staggered (off near set \$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/20 14:30
S147	367	battery and (((collector \$2 tab\$2) near5 (hole \$2 aperture\$2 opening \$2))) and (staggered (off near set\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/20 14:36
S148	6487	battery and (((collector \$2 tab\$2) near5 (hole \$2 aperture\$2 opening \$2)))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/20 14:36
S149	10	battery and (((collector \$2 tab\$2) near5 (hole \$2 aperture\$2 opening \$2)) near5 strength)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/20 14:37
S150	11	battery and (((collector \$2 tab\$2) near5 (hole \$2 aperture\$2 opening \$2)) near5 (strength\$3 strong\$2)) and (stregth \$3 strong\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/20 14:39
S151	19	battery and (((collector \$2 tab\$2) near5 (hole \$2 aperture\$2 opening \$2)) near5 (strength\$3 strong\$2)) and (strength\$3 strong\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/20 14:45
S152	247	battery and (((collector \$2 tab\$2) near5 (hole \$2 aperture\$2 opening \$2)) same (strength\$3 strong\$2)) and (strength\$3 strong\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/20 15:14

S153	168	battery and (((current near collector\$2) tab \$2) near5 (hole\$2 aperture\$2 opening \$2)) same (strength\$3 strong\$2)) and (strength\$3 strong\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/20 14:57
S154	8	battery and ((current near collector\$2) near3 (hole\$2 aperture\$2) same strength)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/20 15:00
S155	5	battery and ((metal near substrate) near3 (hole\$2 aperture\$2) same strength)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/20 15:23
S156	1	S133 and "3" and stagger\$4	USPAT	OR	OFF	2007/04/20 15:10
S157	27	battery and (((collector \$2 tab\$2) near5 (hole \$2 aperture\$2 opening \$2)) same stagger\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/20 15:15
S158	27	battery and (((collector \$2 tab\$2) near5 (hole \$2 aperture\$2 opening \$2)) same stagger\$3) and stagger\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/20 15:20
S159	0	(fuel adj cell\$2) and (((collector\$2 tab\$2) near5 (hole\$2 aperture \$2 opening\$2)) same stagger\$3) and stagger \$3	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/20 15:20
S160	1	(fuel adj cell\$2) and (((collector\$2 tab\$2) near5 (hole\$2 aperture \$2 opening\$2)) same (off near set\$2))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/20 15:21
S161	464	(fuel adj cell\$2) and ((collector\$2 tab\$2) near5 (hole\$2 aperture \$2 opening\$2))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/20 15:21
S162	15	(fuel adj cell\$2) and ((collector\$2 tab\$2) near5 (hole\$2 aperture \$2 opening\$2)) and staggered	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/20 15:21

S163	0	battery and ((collector \$2 near5 (hole\$2 aperture\$2 opening \$2)) same (staggered (off near set\$3))) and (staggered (off near set \$3))	EPO; JPO; DERWENT	OR	OFF	2007/04/20 15:23
S164	1	"4233350".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/22 13:16
S165	1	S164 and staggered	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/22 13:16
S166	1	10/645617	US-PGPUB	OR	OFF	2007/04/23 18:26
S167	1	S166 and ratio\$2	US-PGPUB	OR	OFF	2007/04/23 18:27
S168	1	"6225778".pn.	USPAT	OR	OFF	2007/04/25 13:57
S169	0	"645986".pn.	USPAT	OR	OFF	2007/04/25 13:59
S170	0	"646986".pn.	USPAT	OR	OFF	2007/04/25 13:59
S171	1	"6466986".pn.	USPAT	OR	OFF	2007/04/25 14:00
S172	1	"6465986".pn.	USPAT	OR	OFF	2007/04/25 14:00
S173	1	"6080508".pn.	USPAT	OR	OFF	2007/04/25 14:01
S174	1	"4233350".pn.	USPAT	OR	OFF	2007/04/25 14:01
S175	1	"6225778".pn.	USPAT	OR	OFF	2007/04/25 14:01
S176	1	"5542958".pn.	USPAT	OR	OFF	2007/11/13 10:29
S177	1	"5542958".pn.	USPAT	OR	OFF	2007/11/19 16:43
S178	1	10/645617	US-PGPUB	OR	OFF	2008/02/20 12:03
S179	1	S178 and ratio	US-PGPUB	OR	OFF	2008/02/20 12:03

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